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(19) (CA) **CANADIAN PATENT** (12)

(54) Wall Mounting Assembly

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WALL MOUNTING ASSEMBLY

Abstract of the Disclosure

5 A wall mounting bracket assembly comprising a one  
piece plastic body including a front wall, an integral  
peripheral wall extending from the front wall and an integral  
peripheral flange for attachment to a wall of a building. In  
use the body is mounted on the building and then siding is  
applied to the wall of the building and the edges of the  
siding are brought into closely adjacent relation to the  
10 peripheral wall of the body. A plastic flange member having  
an axial wall is telescoped over the peripheral wall of the  
body and until the flange engages the siding. The axial wall  
of the flange and the peripheral wall of the body have  
interengaging projections and recesses so that the flange is  
15 selectively locked in position.

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

## 1.

- 5           A wall mounting bracket assembly comprising  
          a one-piece plastic body including an integral  
          front wall,  
          an integral continuous peripheral wall extending  
          from the front wall, and  
10           an integral continuous peripheral flange for  
          attachment to a wall of a building, such that the body may be  
          mounted on a building and then siding may be applied to the  
          wall of the building and the edges of the siding brought into  
          closely adjacent relation to said peripheral wall of the  
15           body, and  
          a removable plastic flange member including an  
          integral laterally extending flange and having an integral  
          continuous axial wall adapted to be telescoped over said  
          peripheral wall of the body and until the flange of the  
20           flange member engages the siding,  
          said axial wall of said flange member and said  
          peripheral wall of said body including interengaging means  
          for selectively positioning the flange member at  
          predetermined distances with respect to the integral flange  
25           of the body on the body to accommodate siding of varying  
          thicknesses,  
          said interengaging means being provided at spaced  
          positions along said continuous axial wall and said

continuous peripheral wall.

## 2.

5       The wall mounting bracket assembly set forth in claim 1 wherein said interengaging means comprises interengaging projections and recesses.

## 3.

10       The wall mounting bracket assembly set forth in claim 2 wherein said interengaging projections and recesses are provided at diametrically opposed positions on the respective plastic body and plastic flange member.

## 4.

      The wall mounting bracket assembly set forth in claim 3 wherein said projections are provided on the flange member and said recesses are provided on said plastic body.

15

## 5.

      The wall mounting bracket assembly set forth in claim 2 wherein said interengaging projections and recesses are axially spaced.

20

## 6.

      The wall mounting bracket assembly set forth in claim 5 wherein said projections are on said flange member and said recesses comprise grooves in said peripheral wall of said body.

7.

The wall mounting bracket assembly set forth in claim 1 wherein said front wall includes an outer surface and an inner surface, said inner surface including grooves therein forming lines of demarcation for cutting said wall to provide various openings.

8.

The wall mounting bracket assembly set forth in claim 7 wherein said grooves comprise spaced circular grooves and a rectangular groove.

9.

The wall mounting bracket assembly set forth in claim 1 wherein said front wall has an opening therein including spaced overlapping vanes pivoted in said opening to define a vent for use of said bracket assemblies to vent a clothes dryer and the like.

10.

The wall mounting bracket assembly set forth in claim 1 including a plurality of plastic flange members having different configurations such that any one of the plastic flange members can be applied to the plastic body.



This invention relates to devices for mounting elements such as lighting fixtures pipes or vents on the wall of a building which has siding thereon.

Background and Summary of the Invention

5 In the mounting of devices on the wall of the building having siding, it has been proposed in United States Patent 4,726,152 that a bracket be provided which has a base member with a neck and a cap member with a neck which are telescoped together and riveted to one another after which  
10 the bracket is mounted on the wall of the building. The siding is then brought into position beneath the flange formed by the cap member. Such a bracket has also been molded in a one piece body. The problems with respect to such an arrangement are that it does not accommodate siding  
15 of varying thicknesses and is not universal in its application for mounting devices other than a light fixture.

In our United States Patent 4,875,318, we have disclosed a gable vent comprising a one piece plastic body having a peripheral wall and a flange which is attached to a  
20 wall of a building. The siding is thereafter applied to the building in close proximity to the peripheral wall of the body. The body defines an opening such as a window or vent. A peripheral flange is thereafter applied to the body and is telescoped over the peripheral wall at adjustable positions  
25 into engagement with the siding.

In accordance with the present invention, the concept set forth in the above entitled patent is applied to the problem of mounting other devices on the wall.



More specifically, in accordance with the present invention, the wall mounting bracket assembly comprises a one piece plastic body including a front wall, an integral peripheral wall extending from the front wall and an integral peripheral flange for attachment to a wall of a building. In use the body is mounted on the building and then siding is applied to the wall of the building and the edges of the siding are brought into closely adjacent relation to the peripheral wall of the body. A plastic flange member having an axial wall is telescoped over the peripheral wall of the body and until the flange engages the siding. The axial wall of the flange and the peripheral wall of the body have interengaging projections and recesses so that the flange is selectively locked in position.

#### Description of the Drawings

Fig. 1 is a fragmentary perspective view of a building embodying the invention.

Fig. 2 is a plan view of the bracket assembly shown in Fig. 1, with the light fixture removed.

Fig. 3 is a plan view of one member of the assembly.

Fig. 4 is a sectional view taken along the line 4-4 in Fig. 2.

Figs. 5-10 are plan views of modified forms of members of the type shown in Fig. 3.

Fig. 11 is a plan view of a modified form of mounting assembly.

Fig. 12 is a vertical sectional view through the



assembly of Fig. 11.

#### Description

Referring to Fig. 1, the mounting bracket assembly 20 embodying the invention is shown as applied to a wall W having siding 21 thereon for supporting a device such as a light fixture L. The assembly 20 includes a main one piece plastic body 22, herein shown as rectangular, that includes a planar wall 23, an integral peripheral wall 24 extending axially from the periphery of the wall 23 and an outwardly extending peripheral wall or flange 25 extending from the edge of the wall 24 and parallel to the wall 23. The body 22 is adapted to be fastened to the wall W of a building by fasteners such as nails 26 extending through elongated slots 27 in the flange 25. The siding 21 is then applied into close proximity with the wall 24. The mounting assembly 20 further includes a plastic flange member 30 which in turn has an axial wall 31 adjacent the inner periphery thereof. After the siding is applied, the flange member 30 is telescoped over the wall 24 into engagement with the siding 21. The peripheral wall 24 includes circumferentially spaced and axially spaced grooves 32 which are selectively engaged by axially spaced projections 33 on the inner surface of the wall 31 of the flange 30 to hold the flange in proper adjusted position with the flange closely adjacent the siding. The grooves 32 and projections 33 are preferably formed at diametrically opposed positions on their respective members.

As shown in Fig. 2, the under surface of the wall

23 is formed with grooves that define weakened lines which adapt the mounting assembly for various devices and uses. Thus, the back or underside of the wall 23 includes a central small diameter groove 35 which defines an area that  
5 can be removed where the device is to be used for passage of a water pipe or the like to the exterior. Further, the wall includes a rectangular groove 36 which defines a rectangle for use in association with an electrical box that is rectangular. In addition, the back is formed with a large  
10 circular groove 37 for use with an electrical box that is octagonal, or for use where the mounting assembly is to be connected to a vent such as that of a clothes dryer. Thus, the bracket assembly readily provides a wall 23 that can be adapted by a worker or user for various purposes.

15 As shown in Figs. 5-10, the periphery of the flanges 22a through 22f can have various configurations offering a variety of architecturally different effects.

Referring to Figs. 11 and 12, where the mounting assembly is to be used for connection to a pipe P of a  
20 clothes dryer for venting hot air from the dryer, the central portion of the wall 23a of the body 20f is formed with a rectangular opening 40 in which movable overlapping vanes 41 are pivoted by engagement of projections 42 on the vanes 41 with recesses 43 in an inner peripheral wall 44 that extends  
25 from the wall 23a axially and parallel to the wall 24a. When the dryer is operating, the force of the air will open the vents in a manner well known in the art in connection with venting of dryers.

FIG. 1

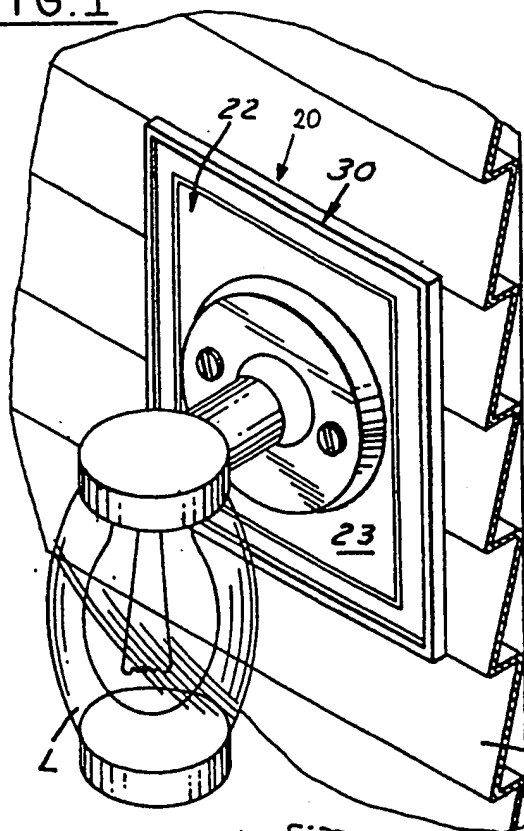


FIG. 2

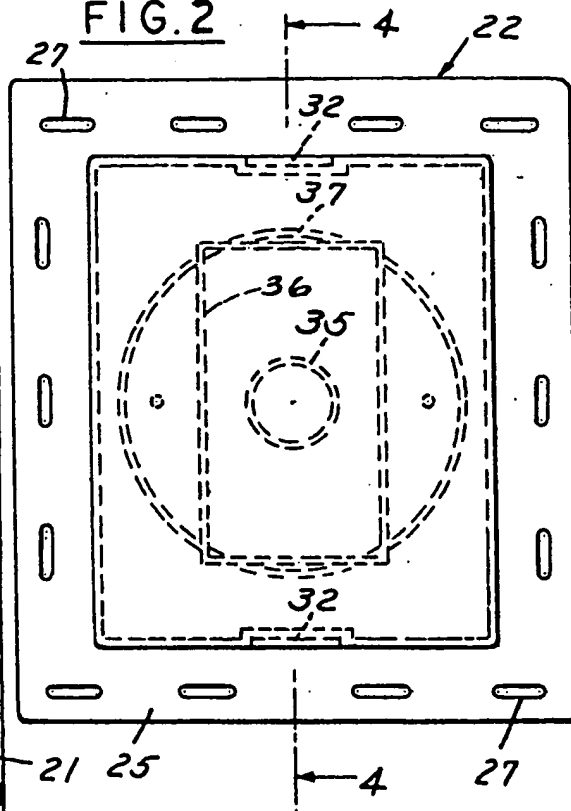


FIG. 4

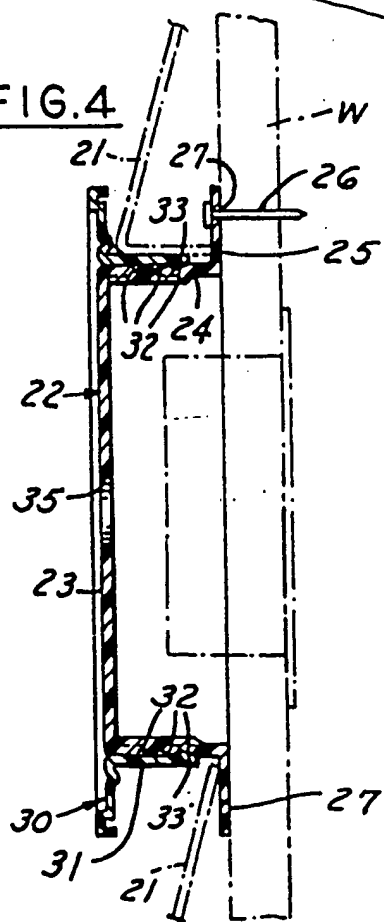


FIG. 3

